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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,632	10/27/2003	Brian G. Connor	S1192.70038US01	6413
	7590 11/21/2007 DCKFIELD, LLP		EXAMINER	
ONE POST OF	FICE SQUARE		DOWE, KATHERINE MARIE	
BOSTON, MA 02109-2127			ART UNIT	PAPER NUMBER
			3734	
		•	MAIL DATĘ	DELIVERY MODE
	•		11/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/695,632	CONNOR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Katherine M. Dowe	3734				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1. after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply-received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS a cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. FONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 Fe	ebruary 2007.	•				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4) Claim(s) 1-74 is/are pending in the application						
4a) Of the above claim(s) 4,18,19,23,27,28,32-38,54,61,64,67 and 70-74 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	·= · · · · · · · · · · · · · · · · · ·					
•	6) Claim(s) 1-3,5-17,20-22,24-26,29-31,39-53,55-60,62,63,65,66,68 and 69 is/are rejected.					
7)⊠ Claim(s) <u>5</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers		•				
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached O	mice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)	∆ □	(DTO 442)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/16/2007.	5) Notice of Infon 6) Other:	mal Patent Application				

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of species 1a (Figs 2-5) in the reply filed on 2/23/2007 is acknowledged.
- 2. Claims 4, 18, 19, 23, 27, 28, 32-38, 54, 61, 64, 67, and 70-74 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 2/23/2007.
- 3. Claims 1-3, 5-17, 20-22, 24-26, 29-31, 39-53, 55-60, 62, 63, 65, 66, 68, and 69 are currently pending.

Claim Objections

4. Claim 5 is objected to because of the following informalities: Claim 5 is dependent on claim 4, which is currently withdrawn from consideration. For the purposes of examination, the Examiner assumes the applicant intends claim 5 to depend on independent claim 1. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claims 1-3, 5-17, 20-22, 25, 26, 29-31, 43-48, 50-53, 55-60, 62, 63, 65, 66, 68, and 69 are rejected under 35 U.S.C. 102(b) as being anticipated by Patterson et al. (US 5,944,686). Patterson et al. disclose a surgical instrument (Figs 1 and 2) comprising a nozzle (30) for forming a liquid jet, a pressure lumen (26) to convey liquid flow (32) to the nozzle, an evacuation lumen (24, 46) comprising a jet receiving opening (36) opposite the nozzle, a stationary non-liquid tissue-cutting component (40) to excise tissue during the surgical procedure. The proximal end of the evacuation lumen may be interpreted as the tissue receptacle since the evacuation lumen draws debris and effluent away from the surgical site (col 3, ln 32). The pressure lumen is capable of conveying a high-pressure liquid of 50,000 psig (col 3, ln 14-16). The distal end of the instrument is capable of being inserted into the spine of a patient. The proximal end of the instrument comprises a handle (50).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Claims 1-3, 5-17, 20-22, 24-26, 29-31, 39-53, 55-60, 62, 63, 65, 66, 68, and 69 9. are rejected under 35 U.S.C. 103(a) as being unpatentable over Moutafis et al. (WO 00/69348) in view of Patterson et al. (US 5,944,686). Moutafis et al. disclose the invention substantially as claimed including a surgical instrument (Fig 1) comprising a nozzle (116) for forming a liquid jet, a pressure lumen (110) to convey liquid flow (120) to the nozzle, an evacuation lumen (112) comprising a jet receiving opening (118) opposite the nozzle, and a tissue receptacle (140) to contain excised tissue. The pressure lumen is capable of conveying a high-pressure liquid of 50,000 psig (pg 23, ln 26-27). The distal end of the instrument is capable of being inserted into the spine of a patient. The proximal end of the instrument comprises a handle (106). The evacuation lumen is shaped and positionable to enable evacuation of essentially all of the liquid comprising the liquid jet without the need of for an external source of vacuum (pg 25, In 31 – pg 26, ln 2). A portion of the instrument may be able to be reused, while a portion is disposed of after a single use, or the entire instrument may be disposed of after a single use (pg 26, ln 7-22).

However, Moutafis et al. do not disclose a non-liquid jet tissue-cutting component. Patterson et al. disclose a similar surgical instrument comprising a nozzle (30) for forming a liquid jet, a pressure lumen (26) to convey liquid flow (32) to the nozzle, and an evacuation lumen (24, 46) comprising a jet receiving opening (36) opposite the nozzle. Patterson teaches the distal end of the instrument may include a

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sharpened edge and tip forming stationary non-liquid tissue-cutting component (40, 42) to excise tissue during the surgical procedure. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Moutafis et al. to include a stationary non-liquid tissue-cutting component in the form of a sharpened distal end of the evacuation lumen to help excise tissue to obviate the need of introducing a second mechanical cutting instrument into the target tissue area when simple mechanical abrasion is desired.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katherine M. Dowe whose telephone number is (571) 272-3201. The examiner can normally be reached on M-F 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Hayes can be reached on (571) 272-4959. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Katherine Dowe November 19, 2007

MICHAEL J. HAYES SUPERVISORY PATENT EXAMINER